

Lot or Batch Number:	A01159
Reference Test Method:	MTH-002.R1
Date Analysis Completed:	11-Mar-2022
Description of sample:	17mg Unflavored Pet Oil 30mL
Analyst:	Morgan Stock

Analysis	Density
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Density:

<u>Analysis</u>	<u>Density Result (g/mL)</u>
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Density	0.944
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Analyst: Morgan Stock

Analyst signature: \_\_\_\_\_



Date: \_\_\_\_\_

11 Mar 22

Approved By:

Leewaphath Xaiyasang

Approver Signature: \_\_\_\_\_



Date: \_\_\_\_\_

11 Mar 22



### Certificate of Analysis

<b>Lot or Batch Number:</b>	A01159
<b>Reference Test Method:</b>	MTH-009.R0 (Minor Cannabinoid)
<b>Date Analysis Completed:</b>	3/11/2022
<b>Description of Sample:</b>	17mg Unflavored Pet Oil 30mL
<b>Sample Submitted by:</b>	Morgan Stock

Analysis

Results

**Weight/weight potency assay**

<u>Analyte</u>	<u>Concentration (mg/g)</u>	<u>Concentration (%w/w)</u>
CBG	0.55	0.06%
CBN	0.05	0.01%
CBC	0.67	0.07%

**ND:** Indicates analyte was below Limit of Detection

**NR:** Indicates presence of analyte below Limit of Quantitation

All detected cannabinoids match corresponding reference standard retention times  $\pm$  5%

\* Total theoretical CBD and delta-9-THC mg/g values reflect the sum total of all CBD and CBDA or THC and THCA molecules assuming 100% conversion and no degradation. Theoretical concentrations are calculated using the molar mass ratio of 0.877 for both THC and CBD.

**Analyst:** Morgan Stock

**Analyst signature:** Morgan Stock

**Date:** 11 Mar 22

**Approved By:** Leewaphath Kaiyasang

**Approver Signature:** Leewaphath Kaiyasang

**Date:** 11 Mar 22

Prepared for:

**17mg Unflavored 30mL**
**CWB HOLDINGS, INC**

Batch ID or Lot Number: <b>A01159B</b>	Test: <b>Potency</b>	Reported: <b>3/15/22</b>	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Concentrate	Test ID: T000197482	Started: 3/14/22	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	Received: 03/14/2022 @ 09:50 AM	Sampler ID: N/A
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## CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.008	ND	ND	Total THC is 0.98mg per serving (1mL).
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	0.098	0.98	
Cannabidiolic acid (CBDA)	0.018	0.055	0.098	0.98	Total THC is 29.4mg per container (30mL).
Cannabidiol (CBD)	0.018	0.054	2.132	21.32	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.018	0.058	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.033	ND	ND	
Cannabinol (CBN)	0.005	0.015	0.006*	0.06*	
Cannabigerolic acid (CBGA)	0.015	0.049	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.055	0.55	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.041	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.023	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.01*	0.1*	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabichromene (CBC)	0.006	0.021	0.066	0.66	
<b>Total Cannabinoids</b>			<b>2.465</b>	<b>24.65</b>	
Total Potential THC**			0.098	0.98	
Total Potential CBD**			2.218	22.18	


 Jacob Miller  
 15-Mar-22  
 2:06 PM


 Ryan Weems  
 15-Mar-22  
 2:08 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa \*(0.877)) and

Total CBD = CBD + (CBDa \*(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

*Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.*



Certificate #4329.02

Prepared for:

**17mg Unflavored 30mL**
**CWB HOLDINGS, INC**

Batch ID or Lot Number: <b>A01159M</b>	Test: <b>Potency</b>	Reported: <b>3/15/22</b>	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Concentrate	Test ID: T000197486	Started: 3/14/22	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	Received: 03/14/2022 @ 09:50 AM	Sampler ID: N/A
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## CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.008	ND	ND	Total THC is 0.98mg per serving (1mL).
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	0.098	0.98	
Cannabidiolic acid (CBDA)	0.020	0.059	0.096	0.96	Total THC is 29.4mg per container (30mL).
Cannabidiol (CBD)	0.019	0.058	2.100	21.00	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.020	0.062	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.036	ND	ND	
Cannabinol (CBN)	0.005	0.016	0.006*	0.06*	
Cannabigerolic acid (CBGA)	0.016	0.052	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.054	0.54	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.044	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.025	ND	ND	
Cannabidivarin (CBDV)	0.005	0.014	0.009*	0.09*	
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND	
Cannabichromene (CBC)	0.007	0.022	0.066	0.66	
<b>Total Cannabinoids</b>			<b>2.429</b>	<b>24.29</b>	
Total Potential THC**			0.098	0.98	
Total Potential CBD**			2.184	21.84	


 Jacob Miller  
 15-Mar-22  
 2:06 PM


 Ryan Weems  
 15-Mar-22  
 2:08 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa \*(0.877)) and

Total CBD = CBD + (CBDa \*(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #4329.02

Prepared for:

**17mg Unflavored 30mL**
**CWB HOLDINGS, INC**

Batch ID or Lot Number: <b>A01159E</b>	Test: <b>Potency</b>	Reported: <b>3/15/22</b>	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Concentrate	Test ID: T000197492	Started: 3/14/22	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	Received: 03/14/2022 @ 09:50 AM	Sampler ID: N/A
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## CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.008	ND	ND	Total THC is 0.99mg per serving (1mL).
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	0.099	0.99	
Cannabidiolic acid (CBDA)	0.019	0.057	0.099	0.99	Total THC is 29.7mg per container (30mL).
Cannabidiol (CBD)	0.019	0.056	2.124	21.24	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.019	0.060	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.035	ND	ND	
Cannabinol (CBN)	0.005	0.016	0.006*	0.06*	
Cannabigerolic acid (CBGA)	0.016	0.051	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.055	0.55	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.043	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.024	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.009*	0.09*	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabichromene (CBC)	0.007	0.021	0.067	0.67	
<b>Total Cannabinoids</b>			<b>2.459</b>	<b>24.59</b>	
Total Potential THC**			0.099	0.99	
Total Potential CBD**			2.211	22.11	

  
 Jacob Miller  
 15-Mar-22  
 2:06 PM

  
 Ryan Weems  
 15-Mar-22  
 2:08 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #4329.02

17mg Unflavored 30mL

<b>Batch ID:</b>	A01159B	<b>Test ID:</b>	T000197483
<b>Matrix:</b>	Finished Product	<b>Received:</b>	03/14/2022 @ 09:50 AM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	3/14/2022
<b>Methods:</b>	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	<b>Reported:</b>	3/17/2022

## MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
<b>Total Yeast and Mold*</b>	TM-24 Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b>Total Aerobic Count*</b>	TM-26 Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup> CFU/g	<b>None Detected</b>
<b>Total Coliforms*</b>	TM-27 Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b>STEC</b>	TM-25 PCR	10 <sup>0</sup> CFU/g	N/A	<b>Absent</b>
<b>Salmonella</b>	TM-25 PCR	10 <sup>0</sup> CFU/g	N/A	<b>Absent</b>

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU


### NOTES:

Free from visual mold, mildew, and foreign matter


### DEFINITIONS:

CFU/g = Colony Forming Units per gram | LOD = Limit of Detection | STEC = Shiga toxin-producing E. coli  
 LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

## FINAL APPROVAL

  
 Brett Hudson  
 3/17/2022  
 12:57:00 PM

PREPARED BY / DATE

  
 Carly Bader  
 3/17/2022  
 1:46:00 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

17mg Unflavored 30mL

<b>Batch ID:</b>	A01159B	<b>Test ID:</b>	T000197484
<b>Matrix:</b>	Finished Product	<b>Received:</b>	03/14/2022 @ 09:50 AM
<b>Test:</b>	Microbial Contaminants: A-La-Carte	<b>Started:</b>	3/14/2022
<b>Method(s):</b>	TM-28	<b>Reported:</b>	3/17/2022

## MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
<i>E. coli</i>	TM-28: Culture Plating	10 <sup>2</sup> CFU/g	N/A	Absent


## NOTES:

*Free from visual mold, mildew, and foreign matter*


## DEFINITIONS:

CFU = Colony Forming Units | LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

## FINAL APPROVAL

  
Brett Hudson  
17-Mar-2022  
4:01 PM

PREPARED BY / DATE

  
Brianne Maillot  
17-Mar-2022  
4:13 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

17mg Unflavored 30mL

<b>Batch ID:</b>	A01159M	<b>Test ID:</b>	T000197487
<b>Matrix:</b>	Finished Product	<b>Received:</b>	03/14/2022 @ 09:50 AM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	3/14/2022
<b>Methods:</b>	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	<b>Reported:</b>	3/17/2022

## MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
<b>Total Yeast and Mold*</b>	TM-24 Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b>Total Aerobic Count*</b>	TM-26 Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup> CFU/g	<b>None Detected</b>
<b>Total Coliforms*</b>	TM-27 Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b>STEC</b>	TM-25 PCR	10 <sup>0</sup> CFU/g	N/A	<b>Absent</b>
<b>Salmonella</b>	TM-25 PCR	10 <sup>0</sup> CFU/g	N/A	<b>Absent</b>

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU


### NOTES:

Free from visual mold, mildew, and foreign matter


### DEFINITIONS:

CFU/g = Colony Forming Units per gram | LOD = Limit of Detection | STEC = Shiga toxin-producing E. coli  
 LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

## FINAL APPROVAL

  
 Brett Hudson  
 3/17/2022  
 12:57:00 PM

PREPARED BY / DATE

  
 Carly Bader  
 3/17/2022  
 1:46:00 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03



17mg Unflavored 30mL

<b>Batch ID:</b>	A01159M	<b>Test ID:</b>	T000197488
<b>Matrix:</b>	Finished Product	<b>Received:</b>	03/14/2022 @ 09:50 AM
<b>Test:</b>	Microbial Contaminants: A-La-Carte	<b>Started:</b>	3/14/2022
<b>Method(s):</b>	TM-28	<b>Reported:</b>	3/17/2022

## MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
<i>E. coli</i>	TM-28: Culture Plating	10 <sup>2</sup> CFU/g	N/A	Absent


### NOTES:

Free from visual mold, mildew, and foreign matter


### DEFINITIONS:

CFU = Colony Forming Units | LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

## FINAL APPROVAL

  
Brett Hudson  
17-Mar-2022  
4:01 PM

PREPARED BY / DATE

  
Brianne Maillot  
17-Mar-2022  
4:13 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

17mg Unflavored 30mL

<b>Batch ID:</b>	A01159E	<b>Test ID:</b>	T000197493
<b>Matrix:</b>	Finished Product	<b>Received:</b>	03/14/2022 @ 09:50 AM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	3/14/2022
<b>Methods:</b>	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	<b>Reported:</b>	3/17/2022

## MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
<b>Total Yeast and Mold*</b>	TM-24 Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b>Total Aerobic Count*</b>	TM-26 Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup> CFU/g	<b>None Detected</b>
<b>Total Coliforms*</b>	TM-27 Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b>STEC</b>	TM-25 PCR	10 <sup>0</sup> CFU/g	N/A	<b>Absent</b>
<b>Salmonella</b>	TM-25 PCR	10 <sup>0</sup> CFU/g	N/A	<b>Absent</b>

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10<sup>2</sup> = 100 CFU  
10<sup>3</sup> = 1,000 CFU  
10<sup>4</sup> = 10,000 CFU  
10<sup>5</sup> = 100,000 CFU



## NOTES:

Free from visual mold, mildew, and foreign matter

## DEFINITIONS:

CFU/g = Colony Forming Units per gram | LOD = Limit of Detection | STEC = Shiga toxin-producing E. coli  
LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

## FINAL APPROVAL

  
Brett Hudson  
3/17/2022  
12:57:00 PM  
Carly Bader  
3/17/2022  
1:46:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

17mg Unflavored 30mL

<b>Batch ID:</b>	A01159E	<b>Test ID:</b>	T000197494
<b>Matrix:</b>	Finished Product	<b>Received:</b>	03/14/2022 @ 09:50 AM
<b>Test:</b>	Microbial Contaminants: A-La-Carte	<b>Started:</b>	3/14/2022
<b>Method(s):</b>	TM-28	<b>Reported:</b>	3/17/2022

## MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
<i>E. coli</i>	TM-28: Culture Plating	10 <sup>2</sup> CFU/g	N/A	Absent


## NOTES:

*Free from visual mold, mildew, and foreign matter*


## DEFINITIONS:

CFU = Colony Forming Units | LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

## FINAL APPROVAL

  
Brett Hudson  
17-Mar-2022  
4:01 PM

PREPARED BY / DATE

  
Brianne Maillot  
17-Mar-2022  
4:13 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

Prepared for:

**17mg Unflavored 30mL****CWB HOLDINGS, INC**

Batch ID or Lot Number: <b>A01159M</b>	Test: <b>Mycotoxins</b>	Reported: <b>3/17/22</b>	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000197490	Started: 3/16/22	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 03/14/2022 @ 09:50 AM	Sampler ID: N/A

**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.1 - 138.9	ND	N/A
Aflatoxin B1	1.1 - 35	ND	
Aflatoxin B2	1.1 - 35	ND	
Aflatoxin G1	1.2 - 34.4	ND	
Aflatoxin G2	1.2 - 33.5	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

Hannah Wright  
17-Mar-22  
10:37 AMSam Smith  
17-Mar-22  
10:41 AM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #4329.02


Prepared for:

**17mg Unflavored 30mL**
**CWB HOLDINGS, INC**


Batch ID or Lot Number: <b>A01159M</b>	Test: <b>Metals</b>	Reported: <b>3/17/22</b>	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Unit	Test ID: T000197489	Started: 3/16/22	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals	Received: 03/14/2022 @ 09:50 AM	Sampler ID: N/A

## HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.043 - 4.32	ND	
Cadmium	0.044 - 4.42	ND	
Mercury	0.044 - 4.41	ND	
Lead	0.042 - 4.17	ND	


 Sam Smith  
 17-Mar-22  
 11:29 AM

PREPARED BY / DATE


 Daniel Weidensaul  
 17-Mar-22  
 11:36 AM

APPROVED BY / DATE

**Definitions**

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #4329.02

## Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027

<b>Sample Name:</b>	<b>A01159M</b>	<b>Eurofins Sample:</b>	<b>11532234</b>
<b>Project ID</b>	CHARLO_WEB-20220309-0139	<b>Receipt Date</b>	10-Mar-2022
<b>PO Number</b>	QC 325	<b>Receipt Condition</b>	Ambient temperature
<b>Description</b>	17mg Unflavored 30mL	<b>Login Date</b>	09-Mar-2022
		<b>Date Started</b>	11-Mar-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	2
		<b>Online Order</b>	16040-16EB84F6

Analysis	Result
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**Glyphosate and AMPA**

Glyphosate	<100 ng/g
AMPA	<100 ng/g

Analysis	Limit	Result	Pass/Fail
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**BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices**

**Category I Residual Solvent or Processing Chemical**

1,2-Dichloroethane	1.0 ppm	<1.0 ppm	Pass
Benzene	1.0 ppm	<1.0 ppm	Pass
Chloroform	1.0 ppm	<1.0 ppm	Pass
Ethylene Oxide	25.0 ppm	<25.0 ppm	Pass
Methylene Chloride	1.0 ppm	<1.0 ppm	Pass
Trichloroethylene	1.0 ppm	<1.0 ppm	Pass

The BCC limit of 1 ppm for Ethylene Oxide is not achieved by this method. Reporting limit of 25 ppm is the limit recommended by the AOAC CASP.

**Category II Residual Solvent or Processing Chemical**

Isopropal Alcohol	5000 ppm	<500 ppm	Pass
Acetone	5000 ppm	<200 ppm	Pass
Acetonitrile	410 ppm	<200 ppm	Pass
Ethanol	5000 ppm	<1000 ppm	Pass
Ethyl Acetate	5000 ppm	<500 ppm	Pass
Ethyl Ether	5000 ppm	<500 ppm	Pass
Methanol	3000 ppm	<500 ppm	Pass
Butane	5000 ppm	<500 ppm	Pass
Heptane	5000 ppm	<50.0 ppm	Pass
Hexane	290 ppm	<30.0 ppm	Pass
Pentane	5000 ppm	<25.0 ppm	Pass
Propane	5000 ppm	<1000 ppm	Pass
Toluene	890 ppm	<90.0 ppm	Pass
Xylenes (ortho-, meta-, para-)	2170 ppm	<160 ppm	Pass

## Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027

<b>Sample Name:</b>	<b>A01159M</b>	<b>Eurofins Sample:</b>	<b>11532234</b>
<b>Project ID</b>	CHARLO_WEB-20220309-0139	<b>Receipt Date</b>	10-Mar-2022
<b>PO Number</b>	QC 325	<b>Receipt Condition</b>	Ambient temperature
<b>Description</b>	17mg Unflavored 30mL	<b>Login Date</b>	09-Mar-2022
		<b>Date Started</b>	11-Mar-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	2
		<b>Online Order</b>	16040-16EB84F6

Analysis	Limit	Result	Pass/Fail
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### BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices

The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.

### Multi-Residue Analysis for hemp products - BCC Pesticide List

Analysis	Limit	Result	Pass/Fail
The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.			
Abamectin	0.3 mg/kg	<0.30 mg/kg	Pass
Acephate	5 mg/kg	<0.10 mg/kg	Pass
Acequinocyl	4 mg/kg	<1.0 mg/kg	Pass
Acetamiprid	5 mg/kg	<0.10 mg/kg	Pass
Aldicarb	0.1 mg/kg	<0.10 mg/kg	Pass
Aldicarb sulfone (Aldoxycarb)	0.1 mg/kg	<0.10 mg/kg	Pass
Aldicarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Azoxystrobin	40 mg/kg	<0.10 mg/kg	Pass
Bifenazate	5 mg/kg	<0.10 mg/kg	Pass
Bifenthrin	0.5 mg/kg	<0.10 mg/kg	Pass
Boscalid	10 mg/kg	<0.10 mg/kg	Pass
Captan	5 mg/kg	<0.20 mg/kg	Pass
Carbaryl	0.5 mg/kg	<0.10 mg/kg	Pass
Carbofuran	0.1 mg/kg	<0.10 mg/kg	Pass
Carbofuran-3-hydroxy-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorantraniliprole	40 mg/kg	<0.10 mg/kg	Pass
Chlordane, cis-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlordane, trans-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorfenapyr	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorpyrifos	0.1 mg/kg	<0.10 mg/kg	Pass
Clofentezine	0.5 mg/kg	<0.10 mg/kg	Pass
Coumaphos	0.1 mg/kg	<0.10 mg/kg	Pass
Cyfluthrin	1 mg/kg	<0.10 mg/kg	Pass
Cypermethrin	1 mg/kg	<0.10 mg/kg	Pass
Diazinon	0.2 mg/kg	<0.10 mg/kg	Pass

## Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027

<b>Sample Name:</b>	<b>A01159M</b>	<b>Eurofins Sample:</b>	<b>11532234</b>
<b>Project ID</b>	CHARLO_WEB-20220309-0139	<b>Receipt Date</b>	10-Mar-2022
<b>PO Number</b>	QC 325	<b>Receipt Condition</b>	Ambient temperature
<b>Description</b>	17mg Unflavored 30mL	<b>Login Date</b>	09-Mar-2022
		<b>Date Started</b>	11-Mar-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	2
		<b>Online Order</b>	16040-16EB84F6

Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
Dichlorvos	0.1 mg/kg	<0.10 mg/kg	Pass
Dimethoate	0.1 mg/kg	<0.10 mg/kg	Pass
Dimethomorph	20 mg/kg	<0.10 mg/kg	Pass
Ethoprophos	0.1 mg/kg	<0.10 mg/kg	Pass
Etofenprox	0.1 mg/kg	<0.10 mg/kg	Pass
Etoxazole	1.5 mg/kg	<0.10 mg/kg	Pass
Fenoxycarb	0.1 mg/kg	<0.10 mg/kg	Pass
Fenpyroximate	2 mg/kg	<0.10 mg/kg	Pass
Fipronil	0.1 mg/kg	<0.10 mg/kg	Pass
Fipronil desulfinyl	0.1 mg/kg	<0.10 mg/kg	Pass
Fipronil sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Flonicamid	2 mg/kg	<0.10 mg/kg	Pass
Fludioxonil	30 mg/kg	<0.10 mg/kg	Pass
Hexythiazox	2 mg/kg	<0.10 mg/kg	Pass
Imazalil	0.1 mg/kg	<0.10 mg/kg	Pass
Imidacloprid	3 mg/kg	<0.10 mg/kg	Pass
Kresoxim-methyl	1 mg/kg	<0.10 mg/kg	Pass
Malathion	5 mg/kg	<0.10 mg/kg	Pass
Metalaxyl	15 mg/kg	<0.10 mg/kg	Pass
Methiocarb	0.1 mg/kg	<0.10 mg/kg	Pass
Methiocarb sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Methiocarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Methomyl	0.1 mg/kg	<0.10 mg/kg	Pass
Mevinphos	0.1 mg/kg	<0.10 mg/kg	Pass
Myclobutanil	9 mg/kg	<0.10 mg/kg	Pass
Naled	0.5 mg/kg	<0.10 mg/kg	Pass
Oxamyl	0.2 mg/kg	<0.10 mg/kg	Pass
Paclobutrazol	0.1 mg/kg	<0.10 mg/kg	Pass
Methyl parathion	0.1 mg/kg	<0.10 mg/kg	Pass



## Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027

<b>Sample Name:</b>	<b>A01159M</b>	<b>Eurofins Sample:</b>	<b>11532234</b>
<b>Project ID</b>	CHARLO_WEB-20220309-0139	<b>Receipt Date</b>	10-Mar-2022
<b>PO Number</b>	QC 325	<b>Receipt Condition</b>	Ambient temperature
<b>Description</b>	17mg Unflavored 30mL	<b>Login Date</b>	09-Mar-2022
		<b>Date Started</b>	11-Mar-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	2
		<b>Online Order</b>	16040-16EB84F6

Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
Pentachloroaniline	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorobenzene	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorobenzonitrile	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorothioanisole	0.2 mg/kg	<0.10 mg/kg	Pass
Permethrin	20 mg/kg	<0.10 mg/kg	Pass
Phosmet	0.2 mg/kg	<0.10 mg/kg	Pass
Piperonylbutoxide	8 mg/kg	<0.10 mg/kg	Pass
Prallethrin	0.4 mg/kg	<0.10 mg/kg	Pass
Propiconazole (sum of isomers)	20 mg/kg	<0.10 mg/kg	Pass
Propoxur	0.1 mg/kg	<0.10 mg/kg	Pass
Pyrethrins	1 mg/kg	<1.0 mg/kg	Pass
Pyridaben	3 mg/kg	<0.10 mg/kg	Pass
Pentachloronitrobenzene	0.2 mg/kg	<0.10 mg/kg	Pass
Spinetoram	3 mg/kg	<0.10 mg/kg	Pass
Spinosad	3 mg/kg	<0.10 mg/kg	Pass
Spiromesifen	12 mg/kg	<0.10 mg/kg	Pass
Spirotetramat	13 mg/kg	<0.10 mg/kg	Pass
Spiroxamine	0.1 mg/kg	<0.10 mg/kg	Pass
Tebuconazole	2 mg/kg	<0.10 mg/kg	Pass
Thiacloprid	0.1 mg/kg	<0.10 mg/kg	Pass
Thiamethoxam	4.5 mg/kg	<0.10 mg/kg	Pass
Trifloxystrobin	30 mg/kg	<0.10 mg/kg	Pass
The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.			
<b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside</b>			
Daminozide	0.1 mg/kg	<0.10 mg/kg	Pass
Fenhexamid	10 mg/kg	<0.10 mg/kg	Pass

## Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027

<b>Sample Name:</b>	<b>A01159M</b>	<b>Eurofins Sample:</b>	<b>11532234</b>
<b>Project ID</b>	CHARLO_WEB-20220309-0139	<b>Receipt Date</b>	10-Mar-2022
<b>PO Number</b>	QC 325	<b>Receipt Condition</b>	Ambient temperature
<b>Description</b>	17mg Unflavored 30mL	<b>Login Date</b>	09-Mar-2022
		<b>Date Started</b>	11-Mar-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	2
		<b>Online Order</b>	16040-16EB84F6

Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside</b>			
The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.		-	
<b>Multi-Residue Analysis for hemp products (1-5 Compounds from 500+ Compound list)</b>			
Metolachlor		<0.10 mg/kg	

Method References	Testing Location
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<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)</b>	<b>Food Integrity Innovation-Madison</b>
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6304 Ronald Reagan Ave Madison, WI 53704 USA

Internally Developed Method

<b>Glyphosate and AMPA (GLY_AMPAS)</b>	<b>Food Integrity Innovation-Madison</b>
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6304 Ronald Reagan Ave Madison, WI 53704 USA

Monsanto Company Method ME-1466-02, "High Throughput Assay for Glyphosate and AMPA in Raw Agricultural Commodities and Processed Fractions Using LC/MS/MS".

<b>Multi-Residue Analysis for hemp products - BCC Pesticide List (PEST_HEMP)</b>	<b>Food Integrity Innovation-Madison</b>
--	--

6304 Ronald Reagan Ave Madison, WI 53704 USA

*Official Methods of Analysis, AOAC Official Method 2007.01*, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

*CEN Standard Method EN 15662*: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

## Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027

### Method References

### Testing Location

**Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST\_HEMP)**

**Food Integrity Innovation-Madison**

6304 Ronald Reagan Ave Madison, WI 53704 USA

*Official Methods of Analysis, AOAC Official Method 2007.01*, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

*CEN Standard Method EN 15662*: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

**Multi-Residue Analysis for hemp products (1-5 Compounds from 500+ Compound list) (PEST\_HEMP)**

**Food Integrity Innovation-Madison**

6304 Ronald Reagan Ave Madison, WI 53704 USA

*Official Methods of Analysis, AOAC Official Method 2007.01*, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

*CEN Standard Method EN 15662*: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

### Testing Location(s)

### Released on Behalf of Eurofins by

**Food Integrity Innovation-Madison**

**Edward Ladwig - President Eurofins Food Chemistry Testing Madison**

Eurofins Food Chemistry Testing Madison, Inc.  
6304 Ronald Reagan Ave  
Madison WI 53704  
800-675-8375



2918.01

**These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.**